

SHARPOV, I.M.

Pharmacological properties of the new ganglion blocking preparation,
dioquine. Khim. i med. no.15:39-52 '60. (MIRA 15:1)

1. Otdel farmakologii (zav. - prof. M.D.Mashkovskiy) Vsesoyuznogo
nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta
imeni S. Ordzhonidze.
(DIOQUINE....PHYSIOLOGICAL EFFECT)

SHAIAPOV, I.M.

Pharmacology of dicoline. Khim. i med. no.15:52-70 '60.
(MIRA 15:1)
I. Otdel farmakologii (zav. - prof. M.D. Mashkovskiy) Vsesoyuznogo
nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta
imeni S. Ordzhonikidze.
(DICOLINE...PHYSIOLOGICAL EFFECT)

SHARAPOV, I.M.

Dicoline is a new ganglion-blocking drug. Med. prom; 14 no. 7:50-
54 Je '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut im. S. Ordzhonikidze.
(ATONOMIC DRUGS)

SHARAPOV, I.M.

Pharmacology of piperidinocarboxylic acid derivatives. Farm.i toks.
24 no.6:700-706 N-D '61. (MIRA 15:11)

1. Laboratoriya farmakologii (zav. - chlen-korrespondent AMN
SSSR prof. M.D.Mashkovskiy) Vsesoyuznogo nauchno-issledovatel'skogo
khimiko-farmatsevticheskogo instituta imeni S.Ordzhonikidze.
(PIPECOLIC ACID)

KHARKEVICH, Dmitriy Aleksandrovich; SHARAPOV, I.M., red.; KUZ'MINA,
N.S., tekhn. red.

[Ganglionic agents] Ganglionarnye sredstva. Moskva, Medgiz,
1962. 293 p. (MIRA 15:10)

(AUTONOMIC DRUGS)

SHARAPOV, I. M.

"The Search for Ganglioblocking Substances in a Number of Derivatives of Quinuclidine and Piperidine Carboxylic Acids," by I. M. Sharapov, VIII Vsesoyuznyy S'yezd Fiziol'gov, Bio-khimikov, Farmakologov (VIII All-Union Session of Physiologists, Biochemists, and Pharmacologists) Moscow, 1955, p 687, (from Sovetskoye "editsinskoye Peferativnoye Oborozniye, No 27, 1956, Abstract by F. Neyerson, p 121)

"Pharmacological investigations were conducted on a number of compounds -- quaternary salts of alkamine esters of quinuclidine and piperidine carboxylic acids. It was established that among them were substances which affect (stimulate or depress) the automatic ganglia differently. Of the 20 compounds which were investigated, the preparations dioquine -- a derivative of quinuclidine carboxylic acid -- and Of816 -- a derivative of pipocolinic acid -- were found to be of greatest interest as ganglioblocking substances. On the basis of experimental data obtained it was learned that dioquine possesses a strongly expressed capacity to inhibit the transmission of a stimulus in the automatic ganglia and lower ganglionic reactivity to pharmacological as well as other stimulants. The preparation has a depressing effect on the interreceptor reflexes which rise as a result of the stimulation of various reflexogenic zones. Dioquine sharply depresses the blood pressure reflex caused by the stimulation of the sciatic nerve by an inducted current and has a depressing effect on the reflex action of the mechanoreceptors of the carotid sinus. It has a prolonged hypotensive action. Of816 when used experimentally was found to possess the same ganglioblocking properties as dioquine. It is, however, somewhat less toxic than the latter." (U)

SHARAPOV, I.M.

Pharmacology of a new ganglionic blocking agent dimecoline.
Farm. i toks. 25 no.5:533-538 S-0 '62 (MIRA 10:1)

1. Laboratoriya farmakologii (zav. - enlen-korrespondent
AN SSSR prof. N.D. Mashkovskiy) Vsesoyuznogo nauchno-issledo-
vatel'skogo khimiko-farmatsevticheskogo instituta imeni
S. Ordzhonikidze.

SHARAPOV, L.M.

Pharmacology of some 2-, 3-mono- and 2,3-disubstituted quinuclidines. Farm. i taks. 25 no.6.691-692 NED 1971. (MFA 171.8)

I. laboratoriya farmakologii (zav. - chlen-kandidat' SSSR prof. M.D. Mashkovskiy) Vsesoyuz. nauch.-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni G. Ordzhonikidze.

RUBCOV, M.V. [Rubtsov, M.V.]; SARAPOV, I.M. [Sharapov, I.M.]; MASKOVSKIY, M.D. [Mashkovskiy, M.D.]; MICHLINA, E.E. [Mikhлина, Е.Е.]; NIKITSKAJA, E.S. [Nikitskaya, Ye.S.]; VOROBJEVA, V.Ja. [Vorobyeva, V.Ya.]; USOVSKAJA, V.S. [Usovskaya, V.S.].

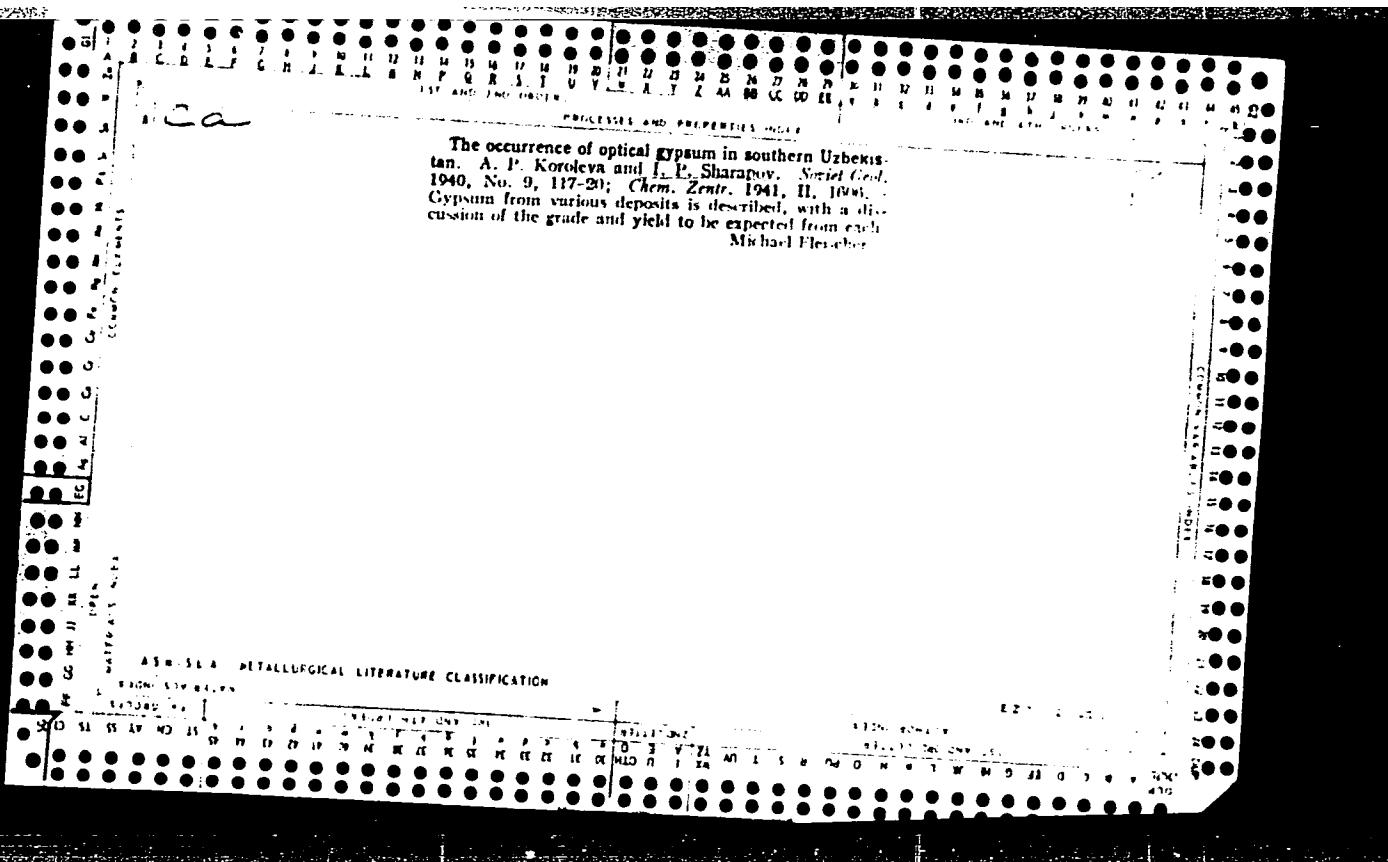
Synthesis and pharmacological research on quinuclidine, piperidine and pyridine derivatives. Cesk. farm. 13 no.6:299-315 Jl'64

1. Vsesoyuznyy nauchno-vedecko-vyzkumnyy ustav pro chemii a farmacii, Moskva (VNICHEFI) [Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsev-ticheskiy institut].

SHARAPOV, I.M.

Pharmacology of aminolupinane dihydrochloride. Farm. i toks. 27
no.1:25-28 Ja-F '64. (MIRA 17:11)

I. Laboratoriya farmakologii (zav. - chlen-korrespondent AMN SSSR
prof. M.D. Mashkovskiy) Vsesoyuznogo nauchno-issledovatel'skogo
khimiko-farmatsevticheskogo instituta (VNIKhFI) imeni Ordzhonikidze.



SHARAPOV, I. P. Cand. Geolog-Mineralog Sci.

Dissertation: "New Methods for Prospecting and Estimating Gold Placers." Moscow
Geological-Prospecting Inst. imeni S. Ordzhonikidze. 19 Feb 47.

SO: Vechernaya Moskva, Feb, 1947 (Project #17836)

1. SHARAFOV, I. P. [Signature]
2. USSR (600)
4. Maryagin, Georgii A.
7. Discoverers of mineral in the Donets Basin. G. A. Maryagin. Reviewed by I. P. Sharapov. Sov. kniga no. 9, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

SHARAFKIN, I. V.

"O, i.v. A.v. 1e.v. P.v. l.v. l.v.t.," Razvedka i Obrana SSSR,
No. 1, pp. 21-22, 1965

EO: 3-32 , 04/04/05

SHARAPOV, I.P.

Errors in determining the thickness of coal beds by means of boreholes. Razved.i okh.nedr. 22 no.8:33-36 Ag '56. (MLRA 9:11)

1. Molotovskiy gosuniversitet.
(Coal geology) (Boring)

SHARAPOV, I.P.

Theory of computing reserves of accessory minerals. Razved. i okh.
nedr 23 no.1:25-32 Ja '57. (MLBA 10:3)

1. Meletevskiy gosudarstvennyy universitet.
(Ore deposits) (Prospecting)

SHARAPOV, I.P.

Theory of the persistence of mineral deposits. Nauch. trudy
Perm NIUI no. 4:5-23 '62. (MIRA 17:6)

СИРИЯ, СССР

Investigating the thickness of Kinel basin coal seams with the
help of distribution maps. Naučn. trudy ierniki no.6:6-91 '64.
(MIRA 13:2)

SHAKAPOV, Ivan Prokof'yevich; KEDINOV, D.A., red

[Application of mathematical statistics in geology;
statistical analysis of geological data] Primenenie
matematicheskoi statistiki v geologii; statistiches-
kiy analiz geologicheskikh dannykh. Moscow, Nedra,
1965. 259 p.

(MIRA 19:1)

Conditions for the formation of the salt-structure in the central parts of the Dnieper-Donetz Crag fold. I. S. Sharapov. *Soviet Geol.* 1941, No. 5, 11-32. The salt deposits formed during the appearance of regional folding and are genetically closely related to folds conditioning salt intrusion into higher-lying layers. The salt structures resulted owing to the squeezing out of the salts from old Devonian anticlinal folds, in some cases perhaps from synclines. F. H. Rathmann

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SHARAPOV, I.S.

Northern borders of the Donets Basin and the outer depression adjoining the
Donets Basin. Biul.MOIP. Otd.geol. 28 no.3:64-67 '53. (MLRA 6:11)
(Donets Basin--Geology, Structural) (Geology, Structural--Donets Basin)

5A813C1 15.

AID P - 549

Subject : USSR/Mining

Card 1/2 Pub. 78 - 15/29

Author : Sharapov, I. S.

Title : Basic outlines of the geotectonic structure and stages
of development of the Dnieper-Donets depression

Periodical : Neft. Khoz., v. 32, #7, 54-60, Jl 1954

Abstract : The geotectonic structure of the Dnieper-Donets depression is explained in detail on the basis of actual analysis of specimens obtained by deep well drilling in wide regions of this depression. Generalization of geological and geophysical materials leads to an outline of the basic characteristics of the Dnieper-Donets depression and of earlier periods of the gradual formation of the present geotectonic stratas. The position of the so-called "Lokhvitskiy bath" is accurately located by the above analysis. The basic stages described of the geological development of the Dnieper-Donets depression

SHARAPOV, I.S. (Kiev)

Geological history of the Dnieper. Priroda 44 no.1:88-89
Ja '55. (MLRA 8:2)
(Dnieper Valley—Geology)

SUCHILIN, A.P., red.; SHARPOV, I.Ye., red.; VEREYN, A.I., red. vyp.; SERGEYEVA, N.A., red.izdava; GLUKHOYEDOVA, G.A., tekhn. red.

[Norms for map compilation and delineation work, in effect as of May 15, 1951] Normy na kartosostavitel'skie i kartoformitel'skie raboty; rukovodящie materialy. Utverzhdeny Zametstitelem ministra geologii M.M. Erokhinym 15 maia 1951 g. Moskva, Gosgeolizdat, 1951. 84 p. (MIRA 16:8)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii.
(Cartography)

SHARAPOV, K.A.

American passenger cars for 1956. Avt.i trakt~~prom.~~ no.8:39-46
Ag '56. (MLRA 9:10)

(United States--Automobiles)

SHARP, K.A.

26(1.4) PHASE I BOOK EXPLOITATION Sov/2396

Akademiya nauk SSSR. Laboratoriya dvigatelye
teorii, konstruktsii, razrabotki i issledovaniye vnutrennogo
ustroystva (theory, construction, design, and testing of
internal combustion engines). Moscow, Izd-vo AN SSSR, 1951.
209 p. (Series: It's. Trudy, vyp. 3) Errata slip inserted.
4,000 copies printed.

Ed. or Publishing House: V. M. Klennikov; Tech. Ed.: A. A.
Favlovsky; Editorial Board: M. D. Apashev, Doctor of Technical
Sciences, K. G. Yergrakov, V. A. Lurye, Candidate of
Technical Sciences, and Yu. B. Svirdov, Candidate of Technical
Sciences.

PURPOSE: This book is intended for technical personnel working
with internal combustion engines.

COVERAGE: This collection of scientific papers deals with internal
combustion engines. The book is divided into three parts:
the first part deal with gas turbines, the second with recip-
rocating internal combustion engines, and the third with
methods and equipment for investigations. No personalities are
mentioned. References follow each article.

Ababekov, M.D. Heat Capacity of Industrial Gases 65
The author discusses the dependence of heat capacities of
gases on temperature and pressure. On the basis of the principles
of theoretical thermodynamics he derives equations for
calculating correction values for heat capacities at high tem-
perature and pressure.

Svirdov, Yu.B. Effect of Combustion Process Parameters on the
Indicated Characteristics of an Engine 65

The author compares indicator diagrams and discusses theoretical
efficiencies of an actual cycle of diesel and spark-lighting
engines. He also presents a method for calculating combustion
losses and determining the most efficient spread of the combus-
tion process in a cycle.

Rachinskii, A.V. [Candidate of Technical Sciences]. Some
Characteristics of Carburetor-engine Charging 108
In a theoretical investigation the author compares the charging
process of a carburetor engine with the charging process of an
engine of identical construction, differing only in that it
has a fuel-injection system.

Svirdov, Yu.A. Standardization of Automotive Engines Using
Different Types of Fuel 116
The purpose of this article is to establish bases for the
standardization of gasoline, diesel, and gas automotive en-
gines. Parameters of Soviet and non-Soviet automotive en-
gines are investigated.

Stechikhin, B.S. and M.D. Apashev. A Method of Combined Investigation
of Flame Propagation and Pressure Change in a Spark-Ignition
Engine 155
The authors describe a method and the results of an experimen-
tal investigation of the variation of pressure and propagation
of the flame front in the engine cylinder during combustion.
The investigation was conducted at the Engine Laboratory of the
Academy of Sciences, USSR. The results show that at the mo-
ment of maximum pressure in the cylinder the complete charge
was ignited.

* Svirdov, Yu.B. Thermodynamic Analysis of the Combustion Process
in a Spark-Ignition Engine 164
The author derives the thermodynamic equation of the dynamics
of combustion during propagation of the flame over the working
substance. He describes the temperature field in the combustion
chamber and its variation during the combustion process. He
also presents an analytical method and an example for calcu-
lating various parameters of the indicator diagram. (c)

SHARPOV, K.A.

SHARPOV, K.A.

Standardization of automobile engines using various types of
fuel. Trudy Lab.dvig. no.3:116-154 '57. (MIRA 10:7)
(Automobiles--Engines)

SHARAPOV, K.A.

American passenger cars in 1957. Avt.i trakt.prom. no.8:35-40
Ag '57. (MIRA 10:12)
(United States--Automobiles)

SHARAPOV
SHARAPOV, K., inzh.

Thirtieth anniversary of the first Soviet made automobile with
small cylinder. Avt.transp. 35 no.11:35 N '57. (MIRA 10:12)
(Automobiles--Design and construction)

26(1,1) PHASE I BOOK EXPLOITATION SOV/2543

Akademiya nauk SSSR. Laboratoriya dvigatelyey Teoriya konstruktsiiya, rachet i issledovaniye vnutrennego goreniya (Theory, Design, Calculation, and Testing of Internal Combustion Motors). Moscow, Izd-vo AN SSSR, 1958. 17 p. (Series: Issled. Trudy, vyp. 4) Errata slip inserted. 3,000 copies printed.

Ed. of Publishing House: V.M. Klennikov; Tech. Eds.: T.A. Prusakova; N.D. Andreev; Doctor of Technical Sciences, Yu. B. Sviridov, Candidate of Technical Sciences, S.Z. Irantsev, Engineer, and K.G. Yevgrafov, Engineer.

PURPOSE: This book is intended for workers of scientific research institutes, students of schools of higher education (univ), design bureaus, and to promote exchange of experimental information on the thermodynamics of internal combustion engines.

CONTENTS: This collection consists of 16 articles based mainly on research work done by the author in 1955-1956. Part I is devoted to working processes in gas turbine power plants and to theoretical and experimental work connected with investigation of the flow of gases. Part II contains articles on the investigation of processes in piston engines. Part III deals with the measurement of high temperatures of gases. The collection is number 4 of the Transactions of the Machine Laboratory of the Academy of Sciences, USSR. No personalities are mentioned. There are no references.

10. Smilhinsky, A.P. [deceased], and Th. B. Sviridov. Development of Air-Cooled Engines in Czechoslovakia 93

Descriptions and technical data for 8 types (T-87, T-114, T-114, T-912, T-600, T-603, t-603) of the Tatra air-cooled engines are given. Ejector air cooling systems are explained at some length.

11. Sviridov, Yu. B., and B.A. Zverev. Flame-Pilot Ignition in Small Engines 108

The article is concerned with the comparison of flame-pilot ignition and normal ignition. A diagram of the experimental assembly is given. Results are shown on graphs and by formulae. There are 4 Soviet references.

12. Matlyar, B.M., and L.F. Davrillo. Friction of Parts in the Piston Component of the DAZ-20 Engine 124

Mechanical losses in automobile engines of type DAZ-20 were investigated in the Engine Laboratory of the USSR Academy of Sciences in cooperation with the Dor'kiy Automobile Plant. Data are given in the form of tables and graphs. Results were made to improve future engine design. There are 4 references: 3 Soviet, and 1 English.

13. Sharipov, M.A. Unification of Transport Engines Operating on Various Types of Fuels 137

Part I. Justification for Establishing Unified Engine Families. This article is the second part of an article published in Trudy laboratoriya dvigatelyey, Nr. 3. On the basis of the analysis in this article the author concludes that the uniformity of engines of various powers and operating on various fuels is indicated from the point of view of production, convenience in operation and general economy.

PART III. METHOD AND APPARATUS FOR INVESTIGATIONS

14. Zaretskikh, M.N., and R.M. Syzdas. Method of Nonstationary Measurement of High Temperatures of Gases 167

The author defines temperature measurement, deduces equations of the ideal curve of heating, describes the construction and experimental verification of the instrument. The author concludes that the method of nonstationary measurement of high temperatures is based on the possibility of calculating the true temperature of a gas by the temperature curve of the flow indicated by a thermocouple.

SHARAPOV, K.A.

Standardization of transport engines using various kinds of fuel.
(MIRA 12:11)
Trudy Lab.dvig. no.4:167-174 '58.
(Motor Vehicles--Engines)

AUTHOR: Sharapov, K.A.

SOV-113-58-9-16/19

TITLE: American Passenger Cars of 1958 (Amerikanskiye legkovyye
avtomobili 1958 g.)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 9, pp 40-46 (USSR)

ABSTRACT: The author describes several 1958 American passenger cars
and gives design and performance data.
There are 8 photos, 3 diagrams and 1 table.

1. Automobile industry--USA

Card 1/1

S/113/60/000/002/005/009
D207/D306

AUTHORS: Zolotarevskiy, V. S., Candidate of Technical Sciences,
Chernyak, B. Ya., Sharapov, K. A., Zolotarevskiy, L. S.
and Dmitriyev, A. A.

TITLE: A new piezoelectric crystal pickup

PERIODICAL: Avtomobil'naya promyshlennost', no. 2, 1960, 32-33

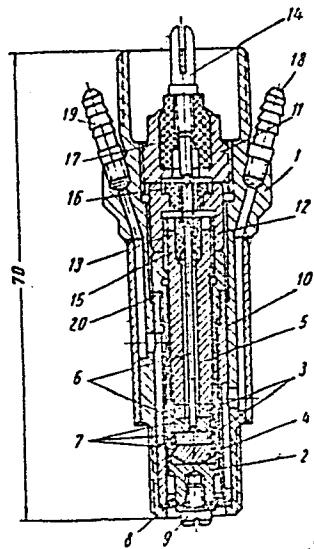
TEXT: The Laboratoriya dvigateley AN SSSR (Engines Laboratory, AS USSR) has developed the ЛДК-03 (LDK-03) piezoelectric crystal pickup for use with a cathode-ray oscilloscope in studying the working process of piston engines. (illustrated below). The case 1 contains a thin-walled brass socket 2, inside which are contained the crystal plates 3, the lower spherical support 4, the upper support 5 and the charge tapping system 6. The crystal plates are centered by rings 7. At the bottom of the pickup is fixed a corrugated steel membrane 8 fastened to the socket 2 by a screw 9. The membrane is packed down by an intermediate pressure bush 10 and a female screw 11. The latter also serves as a tapping contact and ✓

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D207/D306

A new piezoelectric crystal pickup

secures the pickup parts in the case. The nut 12 fixes the upper support 5 in the socket 2 and transmits the pressure of the screw 11 via the thick part of the socket to the pressure bush 10. The electric charge developed by the crystals is led off via the tapping system 6, the spring 13 and the contact rod 14. Insulation is effected by three amber collars 15, 16 and 17. The pickup is cooled by running water which enters by the inlet tube 18 and proceeds via channels in the case and pressure bush directly to the membrane and hence to the outlet tube 19. A rubber ring 20 prevents the water from penetrating to the electrical tapping system. The pickup is not affected by cyclic temperature changes in the engine cylinder since the corrugated form of the steel membrane compensates linear changes due to temper-



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D207/D306

A new piezoelectric crystal pickup

ature. The pickup can pass oscillations up to a limit of 8,000 - 10,000 cycles. No characteristic distortion of the indicator diagram due to the pickup's relatively high frequency of natural oscillations in a transverse direction (25,000 - 30,000 cycles) could be observed even at engine revolutions of 4,500 rpm. To ensure linear indicating characteristics the crystal elements are compressed beforehand with the help of the brass socket. The pickup's high degree of sensitivity depends on: 1) the high coefficient of the membrane which reaches 0.7; 2) the low degree of membrane rigidity due to its thinness (0.15-0.20 mm) and corrugation; 3) the low relation between the longitudinal rigidity of the socket walls and that of the central power line (supports and crystal elements) due to the thinness of the socket walls (0.2 mm). The pickup's dimensions are: length 70 mm maximum, diameter of the threaded insert end 14 mm, case diameter 18 mm. The pickup has proved highly reliable, stable and accurate. Used in conjunction with the Engines Laboratory's indicator calibration method it ensures accurate indication with an error of no more than 2-3%. The pickup is presently used in all engine indication work at the Laboratory and can be

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S/113/60/000/002/005/009
D207/D306

A new piezoelectric crystal pickup

recommended for commercial series production. There is 1 figure
and 1 Soviet-bloc reference.

ASSOCIATION: Laboratoriya dvigateley, AN SSSR (Engines Laboratory,
AS USSR)

Card 4/4

SHARAPOV
SHARAPOV, K. A., CAND TECH SCI, "ON THE UNIFICATION
OF TRANSPORTATION ENGINES, VARIOUS TYPES OF FUEL AND
"CAPACITIES." MOSCOW, 1961. (MIN OF HIGHER AND SEC
SPECS ED RSFSR, MOSCOW *Automobile & Road Inst*.) (KL, 3-61,
222).

85334

S/120/60/000/005/002/051
E032/E514

24.6810

AUTHORS:

Chasnikov, I.Ya., Takibayev, Zh.S., Tursunov, R.A.
and Sharapov, K.V.

TITLE:

Measurement of Multiple Scattering on the Tracks of
~ 10 GeV Protons 19

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.5, pp.15-19

TEXT: A large number of papers have been published on the multiple scattering of charged particles in nuclear emulsions (Refs. 1-10 and others) in which it is concluded that micro-distortions of the emulsion give rise to spurious scattering. These local distortions are a serious problem in high-accuracy work. Other sources of spurious scattering, such as stage noise, thermal noise etc. can now be adequately allowed for so that the local distortion is a residual effect still to be overcome. The present authors have measured the multiple scattering in НИКФИ -Р (NIKFI-R) 28 emulsions 450 μ thick using the МБИ -8 m (MBI-8 m) microscope. The 10 GeV synchrophasotron of the Joint Institute for Nuclear Studies was used as the source of the protons. The total length of tracks examined was 2.8 m and the mean length per track was 5 cm. The

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S/120/60/000/005/002/051
E032/E51⁴

Measurement of Multiple Scattering on the Tracks of ~ 10 GeV Protons

following methods were used to analyse the data obtained. The second difference \bar{D} can be written down in the form

$$\bar{D}^2 = \bar{D}_k^2 + n^2 \quad (1)$$

where \bar{D}_k is the contribution due to Coulomb scattering and is equal to $1.74 K t^{3/2} / PV$, where P is the momentum, V is the velocity, K is the scattering constant and n is the contribution due to spurious scattering. When $\bar{D}_k \leq 4n$, the quantity n can be excluded by various methods, for example, by taking higher differences (Ref.10). The spurious scattering n can be looked upon as consisting of two parts, one of which depends on the cell size and the other does not. The latter can always be subtracted from the measured \bar{D} in which case Eq.(1) can be re-written in the form

$$\bar{D}^2 = (1.74 K/PV)^2 t^3 + a^2 t^{2x} \quad (2)$$

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Measurement of Multiple Scattering on the Tracks of ~ 10 GeV Protons

On the other hand, the method of three multiple cells described by Chasnikov et al. (Ref.8) gives

$$\bar{D}_K = \left(\frac{\bar{D}_1^2 \bar{D}_4^2 - \bar{D}_2^4}{64\bar{D}_1^2 + \bar{D}_4^2 - 16\bar{D}_2^2} \right)^{1/2} \quad (3)$$

where \bar{D}_1 , \bar{D}_2 and \bar{D}_4 are the mean second differences for cells in the ratio 1:2:4. If one takes into account the fact that the scattering constant K depends on the cell size, the numbers 64 and 16 in Eq.(3) should be replaced by 68 and 16.48. The spurious scattering n can be independently determined and excluded by using higher differences, for example, third, fourth etc. differences. The higher differences also exclude systematic distortions. Chasnikov (Ref.10) has also shown that the dependence of the higher

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S/120/60/000/005/002/051
E032/E514

Measurement of Multiple Scattering on the Tracks of ~ 10 GeV
Protons

differences on \bar{D}_K and n is

$$n = 0.5222(2\bar{D}^{III^2} - 3\bar{D}^2)^{1/2}, \quad (5)$$

$$n = 0.2(9\bar{D}^{IV^2} - 24\bar{D}^{III^2})^{1/2}, \quad (6)$$

$$\bar{D}_K = 0.4264(10\bar{D}^2 - 3\bar{D}^{III^2})^{1/2}, \quad (5')$$

$$\bar{D}_K = (2.8\bar{D}^{III^2} - 0.8\bar{D}^{IV^2})^{1/2} \quad (6')$$

\bar{D}_K can be found from Eqs. (5') or (6') only in the case of good statistics, since small statistical fluctuations in \bar{D}^{III} or \bar{D}^{IV} have a strong effect on \bar{D}_K . As the order of the difference increases, the contribution due to spurious scattering to this difference for a given cell will also increase. It is, therefore, desirable to determine this spurious scattering with the aid of the

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E032/E514

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higher order differences. The spurious scattering cannot be determined when the statistical error $\Delta D_{st} \approx n$. When $\Delta D_{st} > n > D_K$ the energy cannot be determined at all. The best results for the energy when $\Delta D_{st} \approx n$ are obtained when the scattering is measured using the optimum cell size t_{opt} . Chasnikov (Ref.10) has described a method for determining t_{opt} from the experimentally determined t_{min} for which \bar{D}/t is a minimum. The quantity t_{opt} depends on the length of the track R and t_{min} in the following way:

$$t_{opt} \sim R^{\frac{1}{2(2-X)}} t_{min}^{\frac{3-2X}{2(2-X)}}$$

where t_{opt} , t_{min} and R are in units of 100μ . According to the measurements carried out by the present authors and also other data $X < 1$. When $X = 0.5$, $t_{opt} = cR^{1/3}t_{min}^{2/3}$. With this value of X

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$t_m = t_o$, where t_o is the cell size corresponding to $D_K = n$. It should be noted that t_{min} is not always equal to t_o , since the spurious scattering index X may not be the same for different emulsions. In finding t_o it is convenient to use the ratios $\rho = \bar{D}^{III}/\bar{D}$ and $q = \bar{D}^{IV}/\bar{D}$. When $D_K = n$, $\rho = 1.55$ and $q = 2.8$. ✓

However, in the presence of systematic distortions of tracks it is better to use the ratio $\bar{D}^{IV}/\bar{D}^{III}$ or the equivalent ratio q/ρ , which is less dependent on systematic errors. The following table gives the mean values of the second differences for different cells and also the values of ρ and q obtained in the present work.

t, mm	\bar{D}, μ	Number of second differences/ degree of overlapping	ρ	q
0.5	0.221	4960/1	1.75	3.23
1	0.333	4832/2	1.66	3.10
2	0.600	4592/4	1.44	2.58
4	1.529	3536/3	1.18	1.72
8	4.553	1344/16	1.12	1.87

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The following table gives the values of PV determined by different methods (in GeV)

t, mm	2	3	4	5	6
0.5	2.5	1.8	1.6	11.9 \pm 2.4	-
1	4.7	3.5	3	9.36 \pm 0.67	9.8 \pm 2.0
2	7.7	6.5	6	8.98 \pm 0.90	10.7 \pm 1.0
4	8.8	9.1	8.7	-	9.82 \pm 0.63
8	8.6	9.3	9.1	-	9.96 \pm 1.5

The first, third and fourth columns give the values of PV without allowing for spurious scattering and based on second, third and fourth differences, respectively, with \bar{D}_K assumed equal to \bar{D} , \bar{D}^{III}/q_K , \bar{D}^{IV}/q_K . Columns 5 and 6 give the values obtained by Card 7/8

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the multiple cell method and with the aid of Eq.(6'). It was found that in the emulsion used by the present authors the spurious scattering n follows the power law $n = 0.08 t^{0.6}$. It is thus found that provided the spurious scattering is allowed for, the energy of charged particles can be determined by the multiple scattering method in the region of 10 GeV. At this energy the spurious scattering is negligible for a cell size of $t = 4$ mm. Acknowledgments are made to V. I. Veksler and M. I. Podgoretskiy for supplying the nuclear emulsions irradiated with protons obtained from the above machine. There are 2 figures, 4 tables and 11 references: 3 Soviet, 1 German and 7 English.

ASSOCIATION: Institut yadernoy fiziki AN KazSSR (Institute of Nuclear Physics, AS, KazSSR)

SUBMITTED: July 14, 1959

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"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610011-4

M. V. Kostyuk et al., Sov. J. Nucl. Phys., 1963, 3, 102.

Production of pions at 1000 rev./c protons in a nuclear emulsion.
Izv. Akad. Nauk SSSR Ser. fiz. no. 2:94-101 '63.
(MIRA 17:6)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610011-4"

L 26781-66 EWT(m)/T

ACC NR: AP6017447

SOURCE CODE: UR/0361/65/000/002/0070/0073

AUTHOR: Botvin, V. A.; Takibayev, Zh. S.; Sharapov, K. V.

ORG: none

TITLE: Investigation of the inelastic interaction of antiprotons with neutrons at 3 Gev/cSOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 2, 1965,
70-73

TOPIC TAGS: antiproton, neutron, neutron interaction, inelastic interaction, meson, pi meson, particle track

ABSTRACT: In this article are presented the experimental results from inelastic $\bar{p}n$ -interactions with a 3 Gev/c impulse using a 600 μ layer of Ilford-G5 emulsion in a proton synchrotron. 134 cases of interaction of a primary antiproton with quasi-free neutrons were analyzed. Data are presented without distinguishing between the two processes possible: annihilation and creation of mesons. The distribution of the inelastic $\bar{p}n$ -interactions with respect to the number of rays is presented: the average number of protons and antiprotons per interaction for a $\bar{p}n$ -event is 0.39 ± 0.07 . Conclusions are drawn that the fraction of cases of creation of mesons is close to the same for $p\bar{p}$ and $\bar{p}n$ -interactions in the investigated energy range. It is also noted that in several 5 to 7 ray cases a proton track was observed, indicating creation

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ACC NR: AP6017447

reactions. The pulse distribution of the pi-mesons produced reaches a maximum in the region of 0.1-0.3 Gev/c and drops sharply at high energy ranges. Orig. art. has: 4 figures and 1 table. [JPRS]

SUB CODE: 20 / SUBM DATE: 29Dec64 / ORIG REF: 003 / OTH REF: 004

Card 2/2 plz

AUTHOR: Rybakov, L. and Sharapov, L.

107-9-38/53

TITLE: A Transistor Tester (Pribor dlya proverki poluprovodnikovykh triodov)

PERIODICAL: Radio, 1957, # 9, p 49-50 (USSR)

ABSTRACT: This article describes a simple instrument for measuring the characteristics of transistors. A galvanometer having a sensitivity of 100-200 micro-amperes and a set of shunts can be utilized as indicator. The circuit-diagram is given by figure 1 and described in the article. For determining the LF amplifying characteristics of a transistor, the static operating conditions are to be established by applying the battery voltage directly to the collector by means of a commutator. At any other position of the same, one of the oscillating circuits is switched into the collector circuit according to the auto-transformer scheme for eliminating the influence of the capacitance of the transistor on the frequencies emitted by the oscillator. At the same time, a positive feed back element is introduced through a capacitor. The transistor is operating in oscillator conditions, the HF voltage of which can be measured by an ordinary microammeter containing a "ПП-1" type germanium diode. The article then deals with the operation of the measuring in-

Card 1/2

A Transistor Tester

107-9-38/53

strument for determining the characteristics of various transis-tors which are used in amateur radios. The instrument described in this article has the form of a small accessory unit of an avometer. Its constructional details are given.

The article contains 5 figures.

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4. Lawns
7. Preparing sod squares. Sad i og., no. 11, 1952

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MAKRUSHINA, A.N., redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor.

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(Tugboats)

SHARAPOV,N.I., kandidat tekhnicheskikh nauk

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(MLRA 8:12)

(Merchant marine)

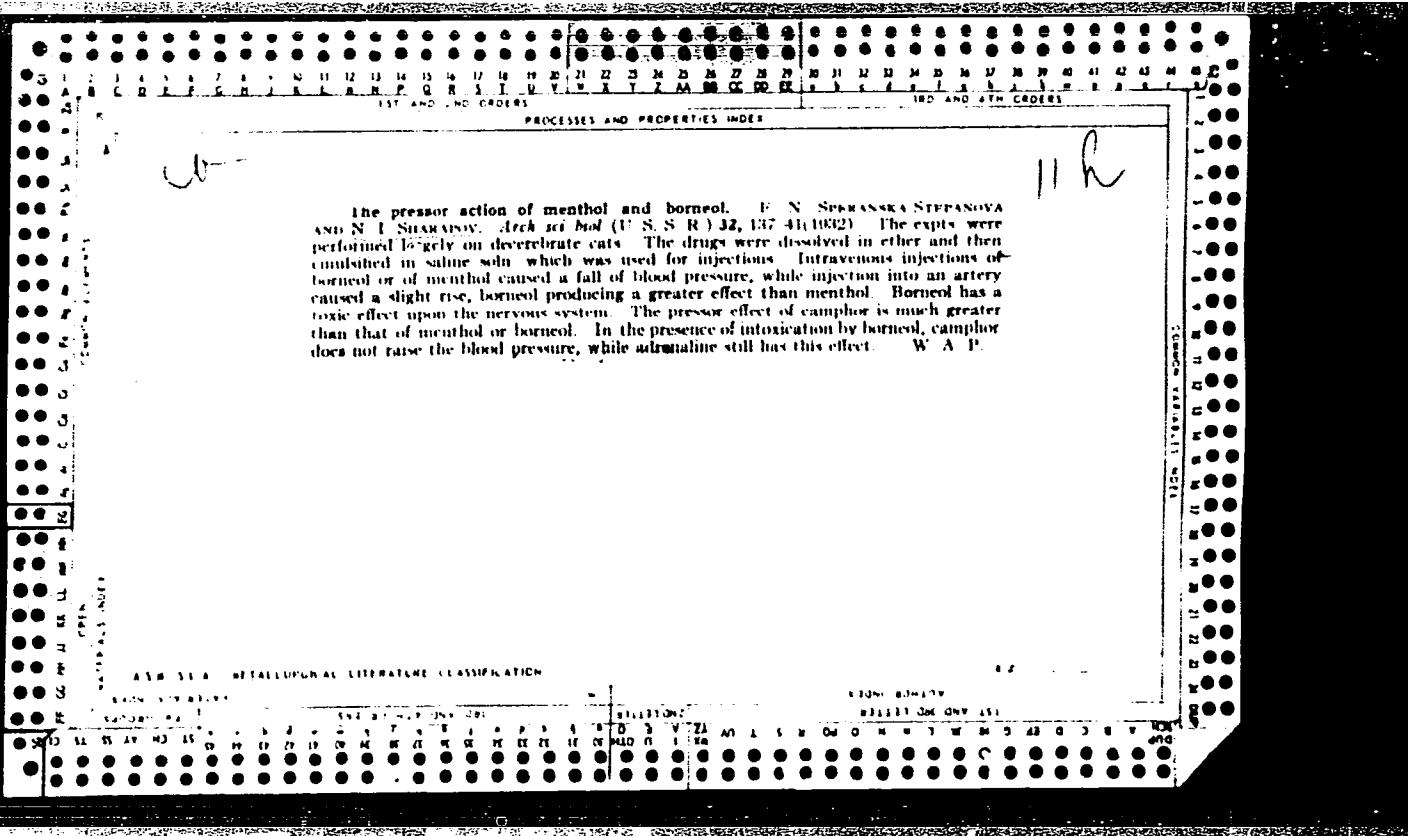
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(Lumber--Transportation) (Inland water transportation)



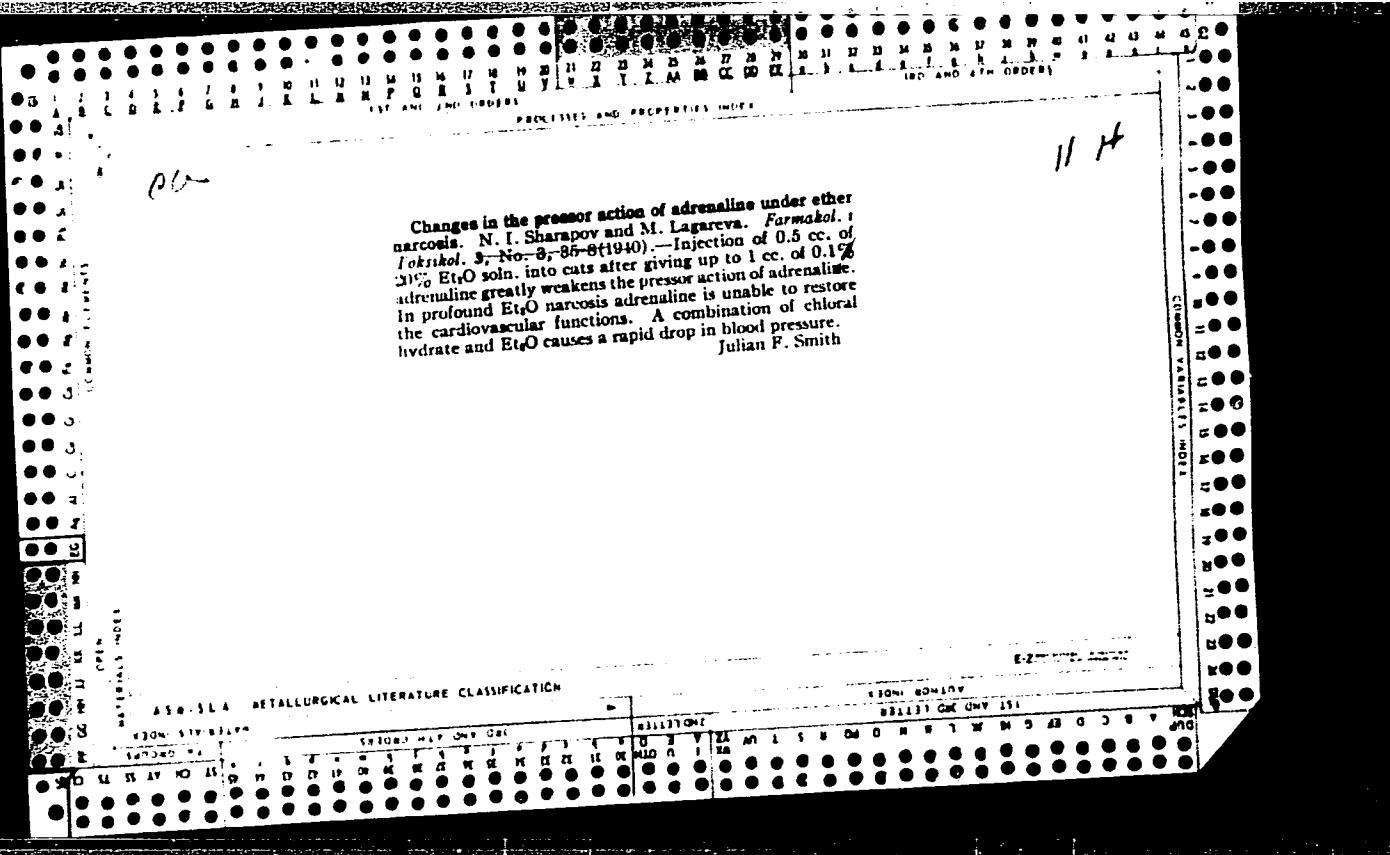
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W. R. Henn

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Julian F. Smith



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A textbook for veterinary institutes and faculties. In the book are presented the methods of analysis of the action of medicinal agents upon individual organs, and also the methods of analysis of the influence of these substances upon the organism as a whole.

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Jul/Aug 1947

"Climate and the Geographical Regionalization of Collective Farming," N. I. Sharapov, 7 pp

"Iz Vsesoyuz Gecg Obshchestva" Vol LXXXIX, No 4

One of the most important factors in locating a collective farm is determining what product will grow best in the locality. This is particularly important in Russia due to the enormous land areas. Climate plays a very important part in determining localities, and thus it is very important to study the climatological factors affecting various crops before deciding on the crops to be grown by these collective farms.

29T61

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Nauk KazSSR, 1948. 116 pp. 7 R. 50 Kopek.

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Elimination of elements via the roots of plants in mineral
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G. M. Kosolapoff

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PA 7/1975

USSR/Agronomy
Plant Breeding
Sugar

Oct 48

"Sugar Cane in the USSR," N. I. Sharapov, 4 $\frac{1}{4}$ pp

"Priroda" No 10

Describes experiments conducted with sugar cane in USSR and briefly lists best places in USSR for growing cane. Discusses growth cycles, harvests and experimental yields of various experimental strains.

9/4975

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610011-4

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102 p. (54-24238)

38298.35

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610011-4"

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[Plant chemistry and climate] Khimizm rastenii i klimat. Moskva,
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VIKHIREV, S.D., red.izd-va; BOCHEVER, V.T., tekhn.red.

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(Mining machinery)
(Berezniki--Potash industry)

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PA 20/49T37

USSR/Electricity.
Telephones, Public
Transformers

Oct 48

"Let Us Not Manufacture Inferior Transformers for
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"Vest Svyazi - Elektrosvyaz'" No 10

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20/49T37

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(BLOOD...CIRCULATION, DISORDERS OF)

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Diuretic and hypotensive action of hypothiazide. Terap.arkh.
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prof. A.L. Myasnikov) AMN SSSR.
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SHARAPOV, U.B.

Diuretic action of novurit and diacarb in circulatory insufficiency. Kardiclogia 1 no.3:72-80 My-Je '61. (MIRA 15:3)

1. Iz Instituta terapii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.L. Myasnikov).

(BLOOD--CIRCULATION, DISORDERS OF)

(MERCUROPHYLIN)

(THIADIAZOLE SULFONAMIDE)

(URINE--SECRETION)

SHARAPOV, Utkur Bakikhanovich; ISMAILOV, N.I., prof.; red.
AKSEL'ROD, M.E., red.

[New diuretics in insufficiency of the blood circulation]
Novye mochegonnnye sredstva pri nedostatochnosti krovoob-
rashcheniya. Tashkent, Izd-vo "Meditina" Uzbekskoi SSR,
(MIRA 18:1)
1964. 95 p.

i.. Chlen-korrespondent Ali Uzbekskoy SSR (for Ismailov).

SHARAPOV, V.

27-5-20/25

AUTHOR: Sharapov, V.

TITLE: Professional-Technical Schools (Professional'no - tekhnicheskiye uchilishcha)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, May 1957,
5(144), p 32 (USSR)

ABSTRACT: The Chief Administration of Labor Reserves has decided to establish 31 new professional-technical schools with a 12-year course. These schools represent an entirely new type of educational institution insofar as they unite professional training with general education. Within a 12-year period the students will receive 1) proper training as highly-qualified craftsmen in their profession, and 2) general education within the scope of a secondary school. The schools will prepare qualified workers for the coal, metallurgical, oil and machine building industries, for railroad and river transport and other branches of the Soviet economy. The school year begins on 1st September.

Card 1/2

AUTHOR: Yemel'yanov, S. and Sharapov, V.

27-1-3/19

TITLE: Strengthen the Ties with the Sovnarkhozes (Krepit' svyaz' s sovnarkhozami)

PERIODICAL: Professional'no-Tekhnicheskoye Obrazovaniye, 1958, # 1,
pp 3-5 (USSR)

ABSTRACT: The article deals with the reform of the Soviet educational system in accordance with decisions made during the 20th session of the KPSS. The purpose of the reform is to eliminate educational deficiencies and to produce skilled labor reserves.

In the Karaganda Oblast' of the Kazakh SSR all 10-month building schools are going to be converted into 2-year schools with bigger training workshops, supplementary equipment and with a qualified teaching staff. The combines Karagandaugol', and Karagandashakhtstroy are assisting in the establishment of these new schools. Altogether 32 technical, building, mining and trade schools will be established in Karaganda, Temir-Tau, Dzhezkazgan, Balkhash, Atbasar, Atkas, Eskibastuz, Saran', Karazhal and Pavlodar to supply the growing industry and particularly the new metallurgical combine "Kazakhstan-skaya magnitka" with skilled labor. Similar schools will be

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Strengthen the Ties with the Sovnarkhozes

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founded by the sovkhozes of the Alma-Ata, Aktyubinsk, Gur'ev, Kustanay, and Severo-Kazakhstan economic districts.

In the Penza oblast' too the sovkhozes cooperate with the oblast' administration to satisfy the growing industrial labor demands. The existing professional schools are to be improved and new ones founded. The training workshops are going to get supplied with tools, up-to-date machinery and technical equipment.

Throughout the whole country, in Leningrad, in the Turkmen SSR in the Belorussian SSR, etc. the sovnarkhozes of all economic districts are facing the problem how to reform the present Soviet educational system to get more and better prepared skilled workers.

AVAILABLE: Library of Congress

Card 2/2

FOMINA, A., kand. tekhn. nauk; SHARAIKOV, V.

Using portable gas analyzers, GB-3 and PGF-11-54, to measure
the concentration of petroleum products vapors. Mor. flot 23
no. 9:36-37 S '63. (MIRA 16:11)